DIVISION FOR PLANETARY SCIENCES ABSTRACT FORM

'Hands-On	Activities:	Let's	Get	Real

E.E. Roettger and B. F. Buratti (JPL)

Science education guidelines, such as the National Science Standards and the California Science Framework, recommend a handson, interdisciplinary approach to the teaching of science. There appears to be a rather large gap between recommending this approach and implementing it, however. We think part of the gap is that many (otherwise excellent) hands-on activities are either inaccessible to teachers, or do not appear relevant to the curriculum. As part of a teachers' workshop, we are modifying hands-on activity instructions to: 1) emphasize an important concept or general principle, 2) use only materials which are cheap or free, 3) use only materials which are readily accessible in a teacher's or student's ordinary life, 4) are completely photocopyable, 5) are complete, including science instruction, 6) contain information about the source (where to get another copy of the instructions, date of publication), 7) contain information about additional sources, resources, and readings, 8) contain ways of integrating the activity into an interdisciplinary curriculum, 9) contain the means for evaluating the effectiveness of the activity, and 10) contain ideas for preliminary and follow-up activities.

This work is being performed at the Jet Propulsion Laboratory, Caltech, under contract with NASA.

	FOR EDITORIAL USE ONLY		
ORAL PAPER	POSTER PAPER 🔀		
PAPER PRESENTED BY $\widehat{\Xi}$.	BY E.E. Roettger (Please Print, Must be First Author)		
SPECIAL INSTRUCTIONS:			
3 PL MS 183 - 501 First Author's Address - Print	Element Element Elements Signature of First Author		
Posodera, CA 9 1109	Signature of Introducing Member, if Author is a Non-member		
E-Mail eer@scn1-jpl.noso.gov	Phone 818-354-6971		
Membership Status (Presenter): DPS-AAS Member	Non-member Student • 1		
Is your abstract newsworthy, an publicity staff with additional mat	d if so would you be willing to assist our terial or interviews for reporters. Maybe		
DPS Category No. <u>②② (</u> From lis	st on separate page)		
	AAS style as described on the back of this		

Abstracts must conform to the AAS style as described on the back of this form. Abstract originals must be typed or glued directly onto this form. The charge for publication of this abstract in the Bulletin of the American Astronomical Society-will be included in the registration fee for this meeting.

Deadline for receipt of abstract: July 19, 1993.

SUBMIT ORIGINAL AND FIVE COPIES TO:

DPS Abstracts
Lunar and Planetary Institute
Publications Services Department
3600 Bay Area Boulevard
Houston, TX 77056-1113

FOR EDITORIAL USE ONLY

BAAS VOL._ NO______19

Abstract Submitted for the Division for Planetary Sciences Meeting, Boulder, CO, USA

Date Submitted ______ Form Version 2/93